

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St. Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**RECEIVED**  
**JUN 30 2009**  
**HOBBSOCD**

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address P.O. Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name State Q Bty well # 1	Facility Type Production Battery

Surface Owner State of NM	Mineral Owner Apache Corporation	Lease No. 035591
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### LOCATION OF RELEASE

API # 30.025.06116

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	16	20S	37E	1980'	South Line	2310'	East	Lea

Latitude 32.57059 Longitude -103.25415

### NATURE OF RELEASE

Type of Release Produced Water	Volume of Release >6<24	Volume Recovered 5bbls
Source of Release Water discharge line	Date and Hour of Occurrence 1/20/09-9am	Date and Hour of Discovery 01/20/09-11am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

NO

Describe Cause of Problem and Remedial Action Taken.\*

Corrosion caused a failure in the integrity of the water pump discharge line, repairs were made and 5bbls of fluid was recovered.

Describe Area Affected and Cleanup Action Taken.\*

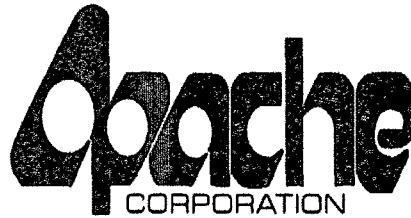
All the fluid was contained inside the bermed area of the battery. Boreholes were sampled and showed bottom hole of contamination. Due to in service production equipment, Apache Corporation would like to remediate the entire battery facility once it is abandoned.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Natalie Gladden</i>	OIL CONSERVATION DIVISION <i>[Signature]</i>	
Printed Name: Natalie Gladden	Approved by District Supervisor ENVIRONMENTAL ENGINEER	
Title: EH&S Environmental Tech	Approval Date: 6-30-09	Expiration Date: _____
E-mail Address:	Conditions of Approval:	
Date: 5/19/2009 Phone: 575-390-4186	Attached <input type="checkbox"/> IRP# 2156	

\* Attach Additional Sheets If Necessary

LIST AS RISK BASED CLOSURE  
= = = = =



**RECEIVED**

JUN 30 2009

HOBBSOCD

State Q Battery

C141 Closure Report

T20S, R37E, S16 UL J

Lat 32.57059/Long -103.25415

Release Date 1/20/2009

Prepared for Apache Corporation by:

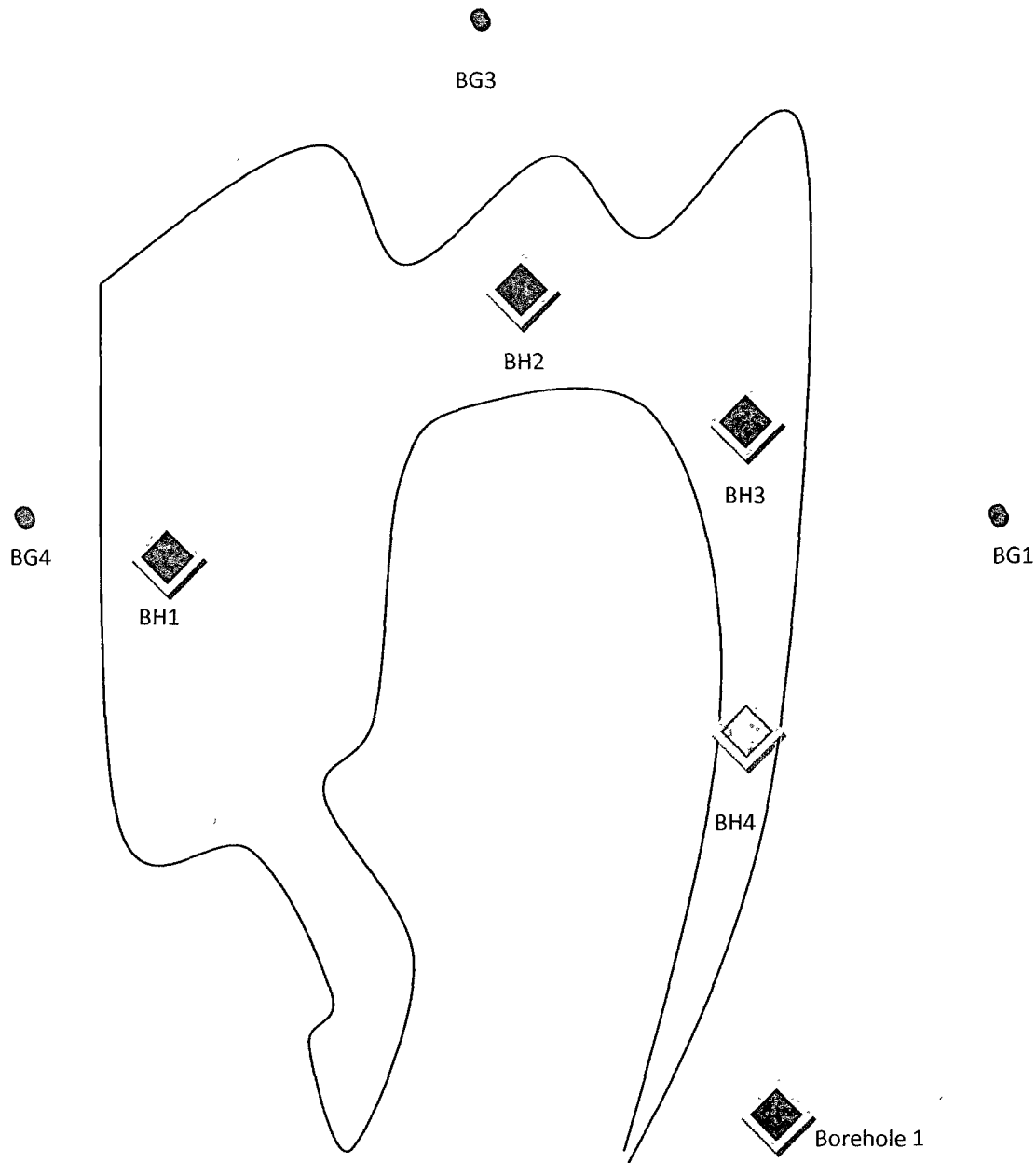
Natalie Gladden

EH&S Environmental Tech

## Project Summary

On January 20<sup>th</sup> of 2009, Travis Carnes (Production Foreman) for Apache Corporation out of Monument NM, called in a release of produced water, total volume of release was approximately 6bbls to 24bbls. Corrosion caused a failure in the integrity of the water pump discharge line. The pumper isolated the leak, shut down the wells, and called a vacuum truck which recovered 5bbls of total fluid. A roustabout gang repaired the line and returned it to service. The release was contained inside the bermed area of the battery and was restricted to the area around the production equipment. Approximate size of the spill area was 1700ft<sup>2</sup>.

On April 23<sup>rd</sup> of 2009, Apache Corporation conducted borehole sampling to determine extent of contamination. The USGS mapping indicates that depth to ground water is somewhere around 15'-30'-bgs. Four background samples were obtained from the north, south, east and west of the facility which determined that background was below 16-ppm in chlorides. Below is the sampling results from the boreholes, also attached you will find the sampling map along with confirmation analyticals from Cardinal Laboratories.



● Background 1

● Background 2

● Background 3

● Background 4

◆ Borehole 1

◆ Borehole 2

◆ Borehole 3

◆ Borehole 4

Sample ID	Ft	Cl (mg/kg)
BG1	Surface	<16
BG2	Surface	<16
BG3	Surface	<16
BG4	Surface	<16
BH1	1'	64
BH1	2'	144
BH2	1'	208
BH2	2'	160
BH3	1'	336
BH3	2'	672
BH3	3'	672
BH3	4'	288
BH3	5'	464
BH3	6'	352
BH3	7'	240
BH3	8'	144
BH4	1'	304
BH4	2'	240

Chloride concentrations indicated that in BH3, previous contamination was present, but was able to show clean samples to determine that ground water would not be impacted, at this time.

### Conclusion

Based upon the release volume, chloride concentration and equipment that is in service at this time, Apache Corporation would like approval from the NMOCD to leave the contamination in place until this facility is abandoned. Once the facility is abandoned Apache Corporation will remediate the entire battery facility to meet NMOCD Regulations.



# CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
APACHE CORPORATION  
ATTN: NATALIE GLADDEN  
P.O. BOX 1849  
EUNICE, NM 88231

Receiving Date: 05/15/09  
Reporting Date: 05/18/09  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: ST Q BTY

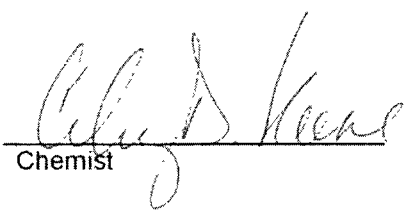
Analysis Date: 05/18/09  
Sampling Date: 04/23/09  
Sample Type: SOIL  
Sample Condition: INTACT  
Sample Received By: CK  
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/kg)
H17439-1	BG1	< 16
H17439-2	BG2	< 16
H17439-3	BG3	< 16
H17439-4	BG4	< 16
H17439-5	BH 1 - 1'	64
H17439-6	BH 1 - 2'	144
H17439-7	BH 2 - 1'	208
H17439-8	BH 2 - 2'	160
H17439-9	BH 3 - 1'	336
H17439-10	BH 3 - 2'	672
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-Cl<sup>-</sup>B

Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

  
Date



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ATTN: NATALIE GLADDEN  
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Receiving Date: 05/15/09  
Reporting Date: 05/18/09  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: ST Q BTY

Analysis Date: 05/18/09  
Sampling Date: 04/23/09  
Sample Type: SOIL  
Sample Condition: INTACT  
Sample Received By: CK  
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/kg)
H17439-11	BH 3 - 3'	672
H17439-12	BH 3 - 4'	288
H17439-13	BH 3 - 5'	464
H17439-14	BH 3 - 6'	352
H17439-15	BH 3 - 7'	240
H17439-16	BH 3 - 8'	144
H17439-17	BH 4 - 1'	304
H17439-18	BH 4 - 2'	240
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-Cl B

Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

  
Date



**(575) 393-2326 Fax (575) 393-2476**

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**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Sampler Relinquished:</b> <i>Arthur Gillette</i> Relinquished By:		<b>Date:</b> 5-15 <b>Time:</b>		<b>Received By:</b>		<b>Phone Result:</b> <input type="checkbox"/> No <b>Add'l Phone #:</b> _____ <b>Fax Result:</b> <input type="checkbox"/> No <b>Add'l Fax #:</b> _____ <b>REMARKS:</b> email results	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Date:</b> 5/15/09 <b>Time:</b> 1:25		<b>Received By:</b> <i>W. Kline</i>		<b>Temp.</b> 38°C <b>Sample Condition</b> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
				<b>CHECKED BY:</b> (Initials) <i>W. Kline</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Most chlorides doesn't require refrigeration. Cl.





101 East Marland, Hobbs, NM 88240

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